What is claimed is:

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1. A method of treating sexual dysfunction in a mammal comprising administering to said mammal in need of such treatment a therapeutically effective amount of a compound of formula (I)

a pharmaceutically acceptable salt, ester, amide, or prodrug thereof, wherein

A is a selected from the group consisting of

X is selected from the group consisting of NH, O and S;

L is selected from the group consisting of CH₂ CH₂CH₂, CH₂CH₂CH₂ and CH₂CH₂CH₂CH₂;

R₁, R₂, R₃, R₄ and R₅ are each independently selected from the group consisting of hydrogen, alkoxy, alkenyl, alkylsulfinyl, alkylsulfonyl, alkylthio, alkynyl, alkoxycarbonyl, alkylcarbonyloxy, carboxy, cyano, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NZ₁Z₂, (NZ₁Z₂)carbonyl and

 (NZ_1Z_2) sulfonyl wherein Z_1 and Z_2 are each independently selected from the group consisting of hydrogen, alkyl, alkylcarbonyl, alkylsulfonyl and formyl;

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen, alkoxy, alkenyl, alkyl, alkylsulfinyl, alkylsulfonyl, alkylthio, alkynyl,

alkoxycarbonyl, alkylcarbonyloxy, carboxy, cyano, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NZ₁Z₂ and (NZ₁Z₂)carbonyl;

 R_E is selected from the group consisting of hydrogen, alkoxycarbonyl, alkyl, alkylcarbonyl, arylcarbonyl, cycloalkylcarbonyl, heterocyclecarbonyl and (NZ_1Z_2) carbonyl;

R_F is selected from the group consisting of hydrogen and alkyl;

Z is selected from the group consisting of N, C and CH; and

--- is a bond when Z is C and --- is absent when Z is N or CH.

2. The method according to claim 1 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of

15 hydrogen and halogen;

R_E is hydrogen;

Z is N; and

--- is absent.

20 3. The method according to claim 1 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

Z is N;

25 --- is absent; and

A is

$$R_1$$
 R_2
 R_3
 R_4

4. The method according to claim 1 wherein

30 L is CH_2 ;

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

R_F is hydrogen;

5 Z is N;

--- is absent;

A is

$$R_1$$
 R_2
 R_3
 R_4
 R_5 ; and

R₂, R₃ and R₄ are each hydrogen.

10

15

5. The method according to claim 4 wherein said compound of formula (I) is selected from the group consisting of

2-[(4-phenylpiperazin-1-yl)methyl]-1H-benzimidazole;

2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]benzonitrile;

2-{[4-(2-chlorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;

2-{[4-(2-fluorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;

2-{[4-(2-nitrophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;

2-{[4-(2-methoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;

2-({4-[2-(methylthio)phenyl]piperazin-1-yl}methyl)-1H-benzimidazole;

20 2-{[4-(2-ethoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole; and

2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol.

6. The method according to claim 1 wherein

L is CH₂;

25 R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

R_F is hydrogen;

Z is N;

30 --- is absent;

A is

$$R_1$$
 R_2
 R_3
 R_4
 R_5 ; and

R₁, R₂, R₄ and R₅ are each hydrogen.

- 5 7. The method according to claim 6 wherein said compound of formula (I) is 4[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol.
 - 8. The method according to claim 1 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of

10 hydrogen and halogen;

R_E is hydrogen;

Z is N;

--- is absent; and

A is

$$R_1$$
 R_2
 R_3
 R_4

15

9. The method according to claim 1 wherein

L is CH₂;

R_A, R_B, R_C and R_D are each independently selected from the group consisting of

20 hydrogen and halogen;

R_E is hydrogen;

R_F is hydrogen;

Z is N;

--- is absent;

25 A is

$$R_1$$
 R_2
 R_3
 R_4 ; and

R₂, R₃ and R₄ are each hydrogen.

- 10. The method according to claim 9 wherein said compound of formula (I) is selected
- 5 from the group consisting of
 - 2-{[4-(3-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]nicotinonitrile;
 - 5,7-dibromo-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 5-fluoro-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
- 10 2-{[4-(6-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - N-{2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-

yl}methanesulfonamide; and

- 2-{[4-(3-fluoropyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole.
- 15 11. The method according to claim 9 wherein said compound of formula (I) is 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole.
 - 12. The method according to claim 1 wherein

L is CH₂;

20 R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

R_F is alkyl;

Z is N;

25 --- is absent;

A is

$$R_1$$
 R_2
 R_3
 R_4 ; and

R₂, R₃ and R₄ are each hydrogen.

- 13. The method according to claim 12 wherein said compound of formula (I) is selected from the group consisting of
 - 2-[(2-methyl-4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
- 2-{[(2S)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole; and
 - 2-{[(2R)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole.
- 14. The method according to claim 1 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

Z is N;

--- is absent;

A is

$$R_1$$
 R_2
 R_3
 R_4 and

15

5

 R_1 , R_2 , R_3 and R_4 are each independently selected from the group consisting of hydrogen and hydroxy.

- 15. The method according to claim 1 wherein
- 20 R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

R_F is hydrogen;

L is CH₂;

25 Z is N;

--- is absent;

A is

$$R_1$$
 R_2
 R_3
 R_4

 R_1 , R_2 and R_4 are each hydrogen; and R_3 is hydroxy.

- 16. The method according to claim 15 wherein said compound of formula (I) is 6-[4-(1H-5 benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-ol.
 - 17. The method according to claim 1 wherein

 R_A , R_B , R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

10 R_E is hydrogen;

Z is N;

--- is absent; and

A is

15

18. The method according to claim 1 wherein

L is CH₂;

 R_A , R_B , R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

20 R_E is hydrogen;

R_F is hydrogen;

Z is N;

--- is absent;

A is

$$R_2$$
 R_3
 R_4 and

25

R₂, R₃ and R₄ are each hydrogen.

- 19. The method according to claim 18 wherein said compound of formula (I) is 2-{(4-pyrimidin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole.
- 20. The method according to claim 1 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of

5 hydrogen and halogen;

R_E is hydrogen;

Z is N;

--- is absent; and

A is

$$X \longrightarrow R_2$$
 R_3

10

21. The method according to claim 1 wherein

L is CH₂;

R_A, R_B, R_C and R_D are each independently selected from the group consisting of

15 hydrogen and halogen;

R_E is hydrogen;

R_F is hydrogen;

Z is N;

--- is absent;

20 A is

R₂ and R₃ are each hydrogen; and

X is S.

- 25 22. The method according to claim 21 wherein said compound of formula (I) is 2-{[4-(1,3-thiazol-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole.
 - 23. The method according to claim 1 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is selected from the group consisting of alkoxycarbonyl, alkylcarbonyl, alkyl, arylcarbonyl, cycloalkylcarbonyl, heterocyclecarbonyl and (NZ₁Z₂)carbonyl;

5 Z is N;

--- is absent; and

A is

$$R_1$$
 R_2
 R_3
 R_4

10 24. The method according to claim 1 wherein

L is CH₂;

 R_A , R_B , R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is selected from the group consisting of alkoxycarbonyl, alkylcarbonyl, (NZ₁Z₂)carbonyl and heterocyclecarbonyl wherein the heterocycle portion of said heterocyclecarbonyl is pyrrolidinyl;

R_F is hydrogen;

Z is N;

--- is absent;

20 A is

$$R_1$$
 R_2
 R_3
 R_4 ; and

 R_2 , R_3 and R_4 are each hydrogen.

The method according to claim 24 wherein said compound of formula (I) is selected
 from the group consisting of

isobutyl 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxylate; 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1-(pyrrolidin-1-ylcarbonyl)-1H-benzimidazole; and

N,N-dimethyl-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxamide.

- 26. The method according to claim 1 wherein
- 5 R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

Z is CH;

--- is absent; and

10 A is

 $R_1 \xrightarrow{R_2} R_3$ $R_4 \xrightarrow{R_5} R_4$

27. The method according to claim 1 wherein

L is CH₂;

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

R_F is hydrogen;

Z is CH;

20 --- is absent;

A is

$$R_1$$
 R_2
 R_3
 R_4
 R_5 ; and

R₂, R₃ and R₄ are each hydrogen.

25 28. The method according to claim 27 wherein said compound of formula (I) is 2-{[4-(2-methoxyphenyl)piperidin-1-yl]methyl}-1H-benzimidazole.

29. The method according to claim 1 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

- 5 Z is CH;
 - --- is absent; and

A is

$$R_1$$
 R_2
 R_3
 R_4

10 30. The method according to claim 1 wherein

L is CH₂;

 R_A , R_B , R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

- 15 R_F is hydrogen;
 - Z is CH;
 - --- is absent;

A is

$$R_1$$
 R_2
 R_3
 R_4 ; and

- R_2 , R_3 and R_4 are each hydrogen.
 - 31. The method according to claim 30 wherein said compound of formula (I) is 2-{(4-pyridin-2-ylpiperidin-1-yl)methyl}-1H-benzimidazole.
- 25 32. The method according to claim 1 wherein

 R_A , R_B , R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

Z is C;

--- is a bond; and

A is

$$R_1$$
 R_2
 R_3
 R_4

5

33. The method according to claim 1 wherein

L is CH₂;

 R_A , R_B , R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

10

R_E is hydrogen;

R_F is hydrogen;

Z is C;

--- is a bond;

A is

$$R_1$$
 R_2
 R_3
 R_4
 R_5 ; and

15

R₂, R₃ and R₄ are each hydrogen.

34. The method according to claim 33 wherein said compound of formula (I) is 2-{(4-phenyl-3,6-dihydropyridin-1(2H)-yl)methyl}-1H-benzimidazole.

20

35. A method of treating sexual dysfunction in a mammal comprising administering to said mammal a therapeutically effective amount of a compound of formula (I) or a pharmaceutically acceptable salt, ester, amide, or prodrug thereof in combination with a pharmaceutically acceptable carrier.

25

36. The method according to claim 35 wherein said compound of formula (I) is selected from the group consisting of

```
2-{[4-(3-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
            2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]nicotinonitrile;
            5,7-dibromo-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
            5-fluoro-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
 5
            2-{[4-(1,3-thiazol-2-vl)piperazin-1-vl]methyl}-1H-benzimidazole;
            isobutyl 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxylate;
            2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1-(pyrrolidin-1-ylcarbonyl)-1H-
     benzimidazole;
            N,N-dimethyl-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-
10
     carboxamide;
            2-[(4-phenylpiperazin-1-yl)methyl]-1H-benzimidazole;
            2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]benzonitrile;
            2-{[4-(2-chlorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
            2-{[4-(2-fluorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
15
            2-{[4-(2-nitrophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
            2-{[4-(2-methoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
            4-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
            2-({4-[2-(methylthio)phenyl]piperazin-1-yl}methyl)-1H-benzimidazole;
            2-{[4-(2-ethoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
20
            2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
            2-{[4-(2-methoxyphenyl)piperidin-1-yl]methyl}-1H-benzimidazole;
            2-[(4-pyridin-2-ylpiperidin-1-yl)methyl]-1H-benzimidazole;
            2-[(4-phenyl-3,6-dihydropyridin-1(2H)-yl)methyl]-1H-benzimidazole;
            2-{[4-(6-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
25
            2-[(2-methyl-4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
            2-{[(2S)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
            2-{[(2R)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
            N-{2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-
     yl}methanesulfonamide; and
30
            2-{[4-(3-fluoropyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole.
```

- 37. The method according to claim 35 wherein said compound of formula (I) is 2{(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole.
- 38. The method according to claim 35 wherein said compound of formula (I) is 2-{(4-pyridin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole bis((L)tartrate).

- 39. The method according to claim 35 wherein said compound of formula (I) is 2-{(4-pyrimidin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole.
- 10 40. The method according to claim 35 wherein said compound of formula (I) is 6-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-ol.
- 41. A method of treating sexual dysfunction in a mammal comprising administering to said mammal a therapeutically effective amount of a compound of formula (I) or a
 15 pharmaceutically acceptable salt, ester, amide, or prodrug thereof in combination with a phosphodiesterase 5 inhibitor.
 - 42. The method according to claim 41 wherein said compound of formula (I) is selected from the group consisting of
- 20 2-{[4-(3-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]nicotinonitrile;
 - 5,7-dibromo-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 5-fluoro-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 2-{[4-(1,3-thiazol-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
- 25 isobutyl 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxylate;
 - 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1-(pyrrolidin-1-ylcarbonyl)-1H-benzimidazole;

N,N-dimethyl-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxamide;

- 30 2-[(4-phenylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]benzonitrile;
 - 2-{[4-(2-chlorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;

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2-{[4-(2-fluorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
```

- 2-{[4-(2-nitrophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
- 2-{[4-(2-methoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
- 4-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
- 5 2-({4-[2-(methylthio)phenyl]piperazin-1-yl}methyl)-1H-benzimidazole;
 - 2-{[4-(2-ethoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
 - 2-{[4-(2-methoxyphenyl)piperidin-1-yl]methyl}-1H-benzimidazole;
 - 2-[(4-pyridin-2-ylpiperidin-1-yl)methyl]-1H-benzimidazole;
- 2-[(4-phenyl-3,6-dihydropyridin-1(2H)-yl)methyl]-1H-benzimidazole;
 - 2-{[4-(6-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-[(2-methyl-4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 2-{[(2S)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-{[(2R)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
 - N-{2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-
 - yl}methanesulfonamide; and

- 2-{[4-(3-fluoropyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole.
- 43. The method according to claim 41 wherein said compound of formula (I) is 2-{(4-20 pyridin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole.
 - 44. The method according to claim 41 wherein said compound of formula (I) is 2-{(4-pyridin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole bis((L)tartrate).
- 25 45. The method according to claim 41 wherein said compound of formula (I) is 2-{(4-pyrimidin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole.
 - 46. The method according to claim 41 wherein said compound of formula (I) is 6-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-ol.
 - 47. A method of treating sexual dysfunction in a mammal comprising administering to said mammal a therapeutically effective amount of a compound of formula (I) or a

pharmaceutically acceptable salt, ester, amide, or prodrug thereof in combination with an adrenergic receptor antagonist.

```
48.
             The method according to claim 47 wherein said compound of formula (I) is selected
 5
      from the group consisting of
             2-{[4-(3-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
             2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]nicotinonitrile;
             5,7-dibromo-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
             5-fluoro-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
10
             2-{[4-(1,3-thiazol-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
             isobutyl 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxylate;
             2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1-(pyrrolidin-1-ylcarbonyl)-1H-
      benzimidazole;
            N,N-dimethyl-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-
15
      carboxamide;
            2-[(4-phenylpiperazin-1-yl)methyl]-1H-benzimidazole;
             2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]benzonitrile;
             2-{[4-(2-chlorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
             2-{[4-(2-fluorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
20
             2-{[4-(2-nitrophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
             2-{[4-(2-methoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
             4-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
             2-({4-[2-(methylthio)phenyl]piperazin-1-yl}methyl)-1H-benzimidazole;
             2-{[4-(2-ethoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
25
             2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
             2-{[4-(2-methoxyphenyl)piperidin-1-yl]methyl}-1H-benzimidazole;
             2-[(4-pyridin-2-ylpiperidin-1-yl)methyl]-1H-benzimidazole;
            2-[(4-phenyl-3,6-dihydropyridin-1(2H)-yl)methyl]-1H-benzimidazole;
             2-{[4-(6-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
30
            2-[(2-methyl-4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
            2-{[(2S)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
             2-{[(2R)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
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N-{2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-yl}methanesulfonamide; and 2-{[4-(3-fluoropyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole.

- 5 49. The method according to claim 47 wherein said compound of formula (I) is 2-{(4-pyridin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole.
 - 50. The method according to claim 47 wherein said compound of formula (I) is 2-{(4-pyridin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole bis((L)tartrate).

51. The method according to claim 47 wherein said compound of formula (I) is 2-{(4-pyrimidin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole.

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- 52. The method according to claim 47 wherein said compound of formula (I) is 6-[4-(1H-15 benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-ol.
 - 53. A method of treating sexual dysfunction in a mammal comprising administering to said mammal a therapeutically effective amount of a compound of formula (I) or a pharmaceutically acceptable salt, ester, amide, or prodrug thereof in combination with a dopamine agonist.
 - 54. The method according to claim 53 wherein said compound of formula (I) is selected from the group consisting of
 - 2-{[4-(3-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
- 25 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]nicotinonitrile;
 - 5,7-dibromo-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 5-fluoro-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 2-{[4-(1,3-thiazol-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - isobutyl 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxylate;
- 30 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1-(pyrrolidin-1-ylcarbonyl)-1H-benzimidazole;

N,N-dimethyl-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1carboxamide; 2-[(4-phenylpiperazin-1-yl)methyl]-1H-benzimidazole; 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]benzonitrile; 5 2-{[4-(2-chlorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole; 2-{[4-(2-fluorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole; 2-{[4-(2-nitrophenyl)piperazin-1-yl]methyl}-1H-benzimidazole; 2-{[4-(2-methoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole; 4-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol; 10 2-({4-[2-(methylthio)phenyl]piperazin-1-yl}methyl)-1H-benzimidazole; 2-{[4-(2-ethoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole; 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol; 2-{[4-(2-methoxyphenyl)piperidin-1-yl]methyl}-1H-benzimidazole; 2-[(4-pyridin-2-ylpiperidin-1-yl)methyl]-1H-benzimidazole; 15 2-[(4-phenyl-3,6-dihydropyridin-1(2H)-yl)methyl]-1H-benzimidazole; 2-{[4-(6-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole; 2-[(2-methyl-4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole; 2-{[(2S)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;

N-{2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-yl}methanesulfonamide; and

 $2-\{[4-(3-fluoropyridin-2-yl)piperazin-1-yl]methyl\}-1H-benzimidazole.$

2-{[(2R)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;

- 55. The method according to claim 53 wherein said compound of formula (I) is 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole.
 - 56. The method according to claim 53 wherein said compound of formula (I) is 2-{(4-pyridin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole bis((L)tartrate).
- 30 57. The method according to claim 53 wherein said compound of formula (I) is 2-{(4-pyrimidin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole.

- 58. The method according to claim 53 wherein said compound of formula (I) is 6-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-ol.
- 59. A method of treating male erectile dysfunction in a male human comprising
 administering to said male human in need of such treatment a therapeutically effective amount of a compound of formula (I) or a pharmaceutically acceptable salt, ester, amide, or prodrug thereof.
- 60. The method according to claim 59 wherein said compound of formula (I) is selected from the group consisting of

```
2-{[4-(3-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
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- 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]nicotinonitrile;
- 5,7-dibromo-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
- 5-fluoro-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
- 2-{[4-(1,3-thiazol-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole; isobutyl 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxylate;
 - 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1-(pyrrolidin-1-ylcarbonyl)-1H-benzimidazole;

N,N-dimethyl-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-

- 20 carboxamide;
 - 2-[(4-phenylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]benzonitrile;
 - 2-{[4-(2-chlorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-{[4-(2-fluorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
- 25 2-{[4-(2-nitrophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-{[4-(2-methoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 4-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
 - 2-({4-[2-(methylthio)phenyl]piperazin-1-yl}methyl)-1H-benzimidazole;
 - 2-{[4-(2-ethoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
- 30 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
 - 2-{[4-(2-methoxyphenyl)piperidin-1-yl]methyl}-1H-benzimidazole;
 - 2-[(4-pyridin-2-ylpiperidin-1-yl)methyl]-1H-benzimidazole;

- 2-[(4-phenyl-3,6-dihydropyridin-1(2H)-yl)methyl]-1H-benzimidazole;
- 2-{[4-(6-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
- 2-[(2-methyl-4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
- 2-{[(2S)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
- 2-{[(2R)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
- N-{2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-
- yl}methanesulfonamide; and

- 2-{[4-(3-fluoropyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole.
- 10 61. The method according to claim 59 wherein said compound of formula (I) is 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole or a pharmaceutically acceptable salt or prodrug thereof.
- 62. The method according to claim 59 wherein said compound of formula (I) is 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole bis((L)tartrate).
 - 63. The method according to claim 59 wherein said compound of formula (I) is 2-{(4-pyrimidin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole or a pharmaceutically acceptable salt or prodrug thereof.
 - 64. The method according to claim 59 wherein said compound of formula (I) is 6-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-ol or a pharmaceutically acceptable salt or prodrug thereof.
- 25 65. A method of treating female sexual dysfunction in a female human comprising administering to said female human in need of such treatment a therapeutically effective amount of a compound of formula (I) or a pharmaceutically acceptable salt, ester, amide, or prodrug thereof.
- 30 66. The method according to claim 65 wherein said compound of formula (I) is selected from the group consisting of
 - 2-{[4-(3-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;

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2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]nicotinonitrile;
             5,7-dibromo-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
             5-fluoro-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
            2-{[4-(1,3-thiazol-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
 5
            isobutyl 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxylate;
             2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1-(pyrrolidin-1-ylcarbonyl)-1H-
     benzimidazole;
            N,N-dimethyl-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-
     carboxamide;
10
            2-[(4-phenylpiperazin-1-yl)methyl]-1H-benzimidazole;
             2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]benzonitrile;
             2-{[4-(2-chlorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
            2-{[4-(2-fluorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
            2-{[4-(2-nitrophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
15
             2-{[4-(2-methoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
             4-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
            2-({4-[2-(methylthio)phenyl]piperazin-1-yl}methyl)-1H-benzimidazole;
             2-{[4-(2-ethoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
             2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
20
             2-{[4-(2-methoxyphenyl)piperidin-1-yl]methyl}-1H-benzimidazole;
             2-[(4-pyridin-2-ylpiperidin-1-yl)methyl]-1H-benzimidazole;
            2-[(4-phenyl-3,6-dihydropyridin-1(2H)-yl)methyl]-1H-benzimidazole;
            2-{[4-(6-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
             2-[(2-methyl-4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
25
            2-{[(2S)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
            2-{[(2R)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
            N-{2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-
     yl}methanesulfonamide; and
            2-{[4-(3-fluoropyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole.
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- 67. The method according to claim 65 wherein said compound of formula (I) is 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole or a pharmaceutically acceptable salt or prodrug thereof.
- 5 68. The method according to claim 65 wherein said compound of formula (I) is 2-{(4-pyridin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole bis((L)tartrate).
 - 69. The method according to claim 65 wherein said compound of formula (I) is 2-[(4-pyrimidin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole or a pharmaceutically acceptable salt or prodrug thereof.

15

- 70. The method according to claim 65 wherein said compound of formula (I) is 6-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-ol or a pharmaceutically acceptable salt or prodrug thereof.
- 71. A method of treating a disorder selected from the group consisting of attention deficit hyperactivity disorder, Alzheimer's disease, drug abuse, Parkinson's disease, schizophrenia, anxiety, mood disorders and depression in a mammal comprising administering to said mammal in need of such treatment a therapeutically effective amount of a compound of formula (I) or a pharmaceutically acceptable salt, ester, amide, or prodrug thereof.
- 72. The method according to claim 71 wherein said compound of formula (I) is selected from the group consisting of
 - 2-{[4-(3-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
- 25 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]nicotinonitrile;
 - 5,7-dibromo-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 5-fluoro-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 2-{[4-(1,3-thiazol-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole; isobutyl 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxylate;
- 30 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1-(pyrrolidin-1-ylcarbonyl)-1H-benzimidazole;

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N.N-dimethyl-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-
      carboxamide;
             2-[(4-phenylpiperazin-1-yl)methyl]-1H-benzimidazole;
             2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]benzonitrile;
  5
             2-{[4-(2-chlorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
              2-{[4-(2-fluorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
              2-{[4-(2-nitrophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
              2-{[4-(2-methoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
              4-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
 10
              2-({4-[2-(methylthio)phenyl]piperazin-1-yl}methyl)-1H-benzimidazole;
              2-{[4-(2-ethoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
              2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
              2-{[4-(6-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
              2-[(2-methyl-4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
. 15
              2-{[(2S)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
              2-{[(2R)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
              N-{2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-
      yl}methanesulfonamide; and
              2-{[4-(3-fluoropyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole.
20
      73.
              The method according to claim 71 wherein said compound of formula (I) is selected
      from the group consisting of
              2-{[4-(2-methoxyphenyl)piperidin-1-yl]methyl}-1H-benzimidazole;
              2-[(4-pyridin-2-ylpiperidin-1-yl)methyl]-1H-benzimidazole; and
25
              2-[(4-phenyl-3,6-dihydropyridin-1(2H)-yl)methyl]-1H-benzimidazole.
              The method according to claim 71 wherein said compound of formula (I) is 2-1(4-
      74.
      pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole.
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The method according to claim 71 wherein said compound of formula (1) is 2-(4-

pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole bis((L)tartrate).

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75.

- 76. The method according to claim 71 wherein said compound of formula (I) is 2-{(4-pyrimidin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole.
- 77. The method according to claim 71 wherein said compound of formula (I) is 6-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-ol.
 - 78. A method of treating cardiovascular disorders in a mammal comprising administering to said mammal a therapeutically effective amount of a compound of formula (I) or a pharmaceutically acceptable salt, ester, amide, or prodrug thereof.

- 79. The method according to claim 78 wherein said compound of formula (I) is selected from the group consisting of
 - 2-{[4-(3-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]nicotinonitrile;
- 5,7-dibromo-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 5-fluoro-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 2-{[4-(1,3-thiazol-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - isobutyl 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxylate;
 - 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1-(pyrrolidin-1-ylcarbonyl)-1H-
- 20 benzimidazole:
 - N,N-dimethyl-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxamide;
 - 2-[(4-phenylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]benzonitrile;
- 25 2-{[4-(2-chlorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-{[4-(2-fluorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-{[4-(2-nitrophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-{[4-(2-methoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 4-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
- 30 2-({4-[2-(methylthio)phenyl]piperazin-1-yl}methyl)-1H-benzimidazole;
 - 2-{[4-(2-ethoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;

- 2-{[4-(2-methoxyphenyl)piperidin-1-yl]methyl}-1H-benzimidazole;
- 2-[(4-pyridin-2-ylpiperidin-1-yl)methyl]-1H-benzimidazole;
- 2-[(4-phenyl-3,6-dihydropyridin-1(2H)-yl)methyl]-1H-benzimidazole;
- 2-{[4-(6-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
- 2-[(2-methyl-4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
 - 2-{[(2S)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-{[(2R)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
 - N-{2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-
- yl}methanesulfonamide; and

- 10 2-{[4-(3-fluoropyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole.
 - 80. The method according to claim 78 wherein said compound of formula (I) is 2-{(4-pyridin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole.
- 15 81. The method according to claim 78 wherein said compound of formula (I) is 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole bis((L)tartrate).
 - 82. The method according to claim 78 wherein said compound of formula (I) is 2-{(4-pyrimidin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole.
 - 83. The method according to claim 78 wherein said compound of formula (I) is 6-[4-(1H-z-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-ol.
- 84. A method of treating inflammatory disorders in a mammal comprising administering to said mammal a therapeutically effective amount of a compound of formula (I) or a pharmaceutically acceptable salt, ester, amide, or prodrug thereof.
 - 85. The method according to claim 84 wherein said compound of formula (1) is selected from the group consisting of
- 30 2-{[4-(3-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
 - 2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]nicotinonitrile;
 - 5,7-dibromo-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;

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5-fluoro-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
            2-{[4-(1,3-thiazol-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
            isobutyl 2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-carboxylate;
            2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1-(pyrrolidin-1-ylcarbonyl)-1H-
 5
     benzimidazole:
            N,N-dimethyl-2-[(4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole-1-
     carboxamide:
            2-[(4-phenylpiperazin-1-yl)methyl]-1H-benzimidazole;
            2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]benzonitrile;
10
            2-{[4-(2-chlorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
            2-{[4-(2-fluorophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
            2-{[4-(2-nitrophenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
            2-{[4-(2-methoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
            4-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
15
            2-({4-[2-(methylthio)phenyl]piperazin-1-yl}methyl)-1H-benzimidazole;
            2-{[4-(2-ethoxyphenyl)piperazin-1-yl]methyl}-1H-benzimidazole;
            2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]phenol;
            2-{[4-(2-methoxyphenyl)piperidin-1-yl]methyl}-1H-benzimidazole;
            2-[(4-pyridin-2-ylpiperidin-1-yl)methyl]-1H-benzimidazole;
20
            2-[(4-phenyl-3,6-dihydropyridin-1(2H)-yl)methyl]-1H-benzimidazole;
            2-{[4-(6-methylpyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole;
            2-[(2-methyl-4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;
            2-{[(2S)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
            2-{[(2R)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole;
25
            N-{2-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-
     yl}methanesulfonamide; and
            2-{[4-(3-fluoropyridin-2-yl)piperazin-1-yl]methyl}-1H-benzimidazole.
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86. The method according to claim 84 wherein said compound of formula (I) is 2-{(4-30 pyridin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole.

- 87. The method according to claim 84 wherein said compound of formula (I) is 2-{(4-pyridin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole bis((L)tartrate).
- 88. The method according to claim 84 wherein said compound of formula (I) is 2-{(4-pyrimidin-2-ylpiperazin-1-yl)methyl}-1H-benzimidazole.
 - 89. The method according to claim 84 wherein said compound of formula (I) is 6-[4-(1H-benzimidazol-2-ylmethyl)piperazin-1-yl]pyridin-3-ol.
- 10 90. A compound of formula (II)

or a pharmaceutically acceptable salt, ester, amide, or prodrug thereof, wherein

A is a selected from the group consisting of

$$R_{1}$$
 R_{2}
 R_{3}
 R_{4}
 R_{5}
 R_{5}
 R_{5}
 R_{5}
 R_{5}
 R_{6}
 R_{1}
 R_{2}
 R_{2}
 R_{3}
 R_{4}
 R_{5}
 R_{5

X is selected from the group consisting of NH, O and S;

L is selected from the group consisting of CH₂ CH₂CH₂, CH₂CH₂CH₂ and CH₂CH₂CH₂;

 R_1 , R_2 , R_3 , R_4 and R_5 are each independently selected from the group consisting of hydrogen, alkoxy, alkenyl, alkylsulfinyl, alkylsulfonyl, alkylthio, alkynyl, alkoxycarbonyl, alkylcarbonyloxy, carboxy, cyano, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, $-NZ_1Z_2$ and (NZ_1Z_2) carbonyl wherein Z_1 and Z_2 are each independently selected from the group consisting of hydrogen, alkyl, alkylcarbonyl, alkylsulfonyl and formyl;

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen, alkoxy, alkenyl, alkyl, alkylsulfinyl, alkylsulfonyl, alkylthio, alkynyl, alkoxycarbonyl, alkylcarbonyl, alkylcarbonyloxy, carboxy, cyano, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, -NZ₁Z₂ and (NZ₁Z₂)carbonyl;

 R_E is selected from the group consisting of hydrogen, alkoxycarbonyl, alkyl, alkylcarbonyl, arylcarbonyl, cycloalkylcarbonyl, heterocyclecarbonyl and (NZ_1Z_2) carbonyl;

15 and

5

10

R_F is selected from the group consisting of hydrogen and alkyl; provided that when A is

$$R_2$$
 R_3 and X is S, then R_2 or R_3 is other than hydrogen.

20 91. A compound according to claim 90 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen; and

A is

$$R_2$$
 R_3
 R_4

25

92. A compound according to claim 90 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

RE is hydrogen;

R_F is hydrogen;

L is CH₂;

A is

5

15

20

$$R_2$$
 R_3
 R_4 ; and

R₂, R₃ and R₄ are each hydrogen.

- 93. A compound according to claim 92 that is 2-[(4-pyrimidin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole.
- 10 94. A compound of formula (III)

$$\begin{array}{c|c}
R_2 & R_3 \\
R_1 & N & R_4 \\
R_C & N & R_E
\end{array}$$
(III)

or a pharmaceutically acceptable salt, ester, amide, or prodrug thereof, wherein

R₁, R₂, R₃ and R₄ are each independently selected from the group consisting of hydrogen, alkylsulfinyl, alkylsulfonyl, alkylsulfonylamino, alkylthio and hydroxy;

L is selected from the group consisting of CH₂, CH₂CH₂, CH₂CH₂CH₂ and CH₂CH₂CH₂;

 R_A , R_B , R_C and R_D are each independently selected from the group consisting of hydrogen, alkoxy, alkenyl, alkylsulfinyl, alkylsulfonyl, alkylthio, alkynyl, alkoxycarbonyl, alkylcarbonyl, alkylcarbonyloxy, carboxy, cyano, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, $-NZ_4Z_2$ and (NZ_1Z_2) carbonyl wherein Z_1 and Z_2 are each independently selected from the group consisting of hydrogen, alkyl, alkylcarbonyl, alkylsulfonyl and formyl;

 R_E is selected from the group consisting of hydrogen, alkoxycarbonyl, alkyl, alkylcarbonyl, arylcarbonyl, cycloalkylcarbonyl, heterocyclecarbonyl and (NZ $_1$ Z $_2$)carbonyl; and

R_F is selected from the group consisting of hydrogen and alkyl;

- provided that when R_F is hydrogen, than at least one of R_1 , R_2 , R_3 , or R_4 is other than hydrogen;
 - 95. A compound according to claim 94 wherein

R₁, R₂, R₃ and R₄ are each independently selected from the group consisting of hydrogen and hydroxy;

 R_A , R_B , R_C and R_D are each independently selected from the group consisting of hydrogen and halogen; and

RE is hydrogen.

15 96. A compound according to claim 94 wherein

R₁, R₂ and R₄ are each hydrogen;

R₃ is hydroxy;

L is CH₂;

 R_A , R_B , R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen; and

R_F is hydrogen.

- 97. A compound according to claim 96 that is 6-[4-(1H-benzimidazol-2-
- 25 ylmethyl)piperazin-1-yl]pyridin-3-ol.
 - 98. A compound according to claim 94 wherein

R₁, R₂, R₃ and R₄ are each hydrogen;

L is CH₂;

30 R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen; and

R_F is alkyl.

99. A compound according to claim 98 selected from the group consisting of 2-[(2-methyl-4-pyridin-2-ylpiperazin-1-yl)methyl]-1H-benzimidazole;

5 2-{[(2S)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole; and 2-{[(2R)-2-methyl-4-pyridin-2-ylpiperazin-1-yl]methyl}-1H-benzimidazole.

100. A compound according to claim 94 wherein

R₁, R₂, R₃ and R₄ are each independently selected from the group consisting of hydrogen and alkylsulfonylamino;

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen; and

R_E is hydrogen.

15 101. A compound according to claim 94 wherein

R₂, R₃ and R₄ are each hydrogen;

R₁ is alkylsulfonylamino;

L is CH₂;

20

 R_A , R_B , R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen; and

R_F is hydrogen.

- 102. A compound according to claim 101 that is N-{2-[4-(1H-benzimidazol-2-
- 25 ylmethyl)piperazin-1-yl]pyridin-3-yl}methanesulfonamide.
 - 103. A compound of formula (IV)

$$\begin{array}{c|c}
R_B & X & X & X \\
R_C & N & N & R_E
\end{array}$$
(IV)

or a pharmaceutically acceptable salt, ester, amide, or prodrug thereof, wherein

A is a selected from the group consisting of

X is selected from the group consisting of NH, O and S;

10

15

20

L is selected from the group consisting of CH₂ CH₂CH₂, CH₂CH₂CH₂ and CH₂CH₂CH₂CH₂;

 R_1 , R_2 , R_3 , R_4 and R_5 are each independently selected from the group consisting of hydrogen, alkoxy, alkenyl, alkylsulfinyl, alkylsulfonyl, alkylthio, alkynyl, alkoxycarbonyl, alkylcarbonyloxy, carboxy, cyano, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, $-NZ_1Z_2$ and (NZ_1Z_2) carbonyl wherein Z_1 and Z_2 are each independently selected from the group consisting of hydrogen, alkyl, alkylcarbonyl, alkylsulfonyl and formyl;

 R_A , R_B , R_C and R_D are each independently selected from the group consisting of hydrogen, alkoxy, alkenyl, alkylsulfinyl, alkylsulfonyl, alkylthio, alkynyl, alkoxycarbonyl, alkylcarbonyloxy, carboxy, cyano, formyl, halogen, haloalkoxy, haloalkyl, hydroxy, hydroxyalkyl, mercapto, nitro, $-NZ_1Z_2$ and (NZ_1Z_2) carbonyl wherein Z_1 and Z_2 are each independently selected from the group consisting of hydrogen, alkyl, alkylcarbonyl, alkylsulfonyl and formyl;

R_E is selected from the group consisting of hydrogen, alkoxycarbonyl, alkyl, alkylcarbonyl, arylcarbonyl, cycloalkylcarbonyl, heterocyclecarbonyl and (NZ₁Z₂)carbonyl;

R_F is selected from the group consisting of hydrogen and alkyl;

Z is selected from the group consisting of C and CH; and

--- is a bond when Z is C and --- is absent when Z is CH.

5 104. A compound according to claim 103 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

Z is CH;

10 --- is absent when Z is CH; and

A is

$$R_1 \xrightarrow{R_2} R_3$$

$$R_5 \xrightarrow{R_5} R_4$$

105. A compound according to claim 103 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

R_F is hydrogen;

L is CH₂;

20 Z is CH;

--- is absent when Z is CH;

A is

$$R_1$$
 R_2
 R_3
 R_4
 R_5 ; and

R₂, R₃ and R₄ are each hydrogen.

25

106. A compound according to claim 105 that is 2-{[4-(2-methoxyphenyl)piperidin-1-yl]methyl}-1H-benzimidazole.

107. A compound according to claim 103 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

5 R_E is hydrogen;

Z is CH;

--- is absent when Z is CH; and

A is

$$R_1 \xrightarrow{R_2} R_3$$

10

108. A compound according to claim 103 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

15 R_F is hydrogen;

L is CH₂;

Z is CH;

--- is absent when Z is CH;

A is

$$R_1$$
 R_2
 R_3
 R_4 : and

20

R₂, R₃ and R₄ are each hydrogen.

109. A compound according to claim 108 that is 2-[(4-pyridin-2-ylpiperidin-1-yl)methyl]-1H-benzimidazole.

25

110. A compound according to claim 103 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

R_E is hydrogen;

Z is C;

--- is a bond; and

A is

$$R_1$$
 R_2
 R_3
 R_4

111. A compound according to claim 103 wherein

R_A, R_B, R_C and R_D are each independently selected from the group consisting of hydrogen and halogen;

10 R_E is hydrogen;

R_F is hydrogen;

L is CH₂;

Z is C;

--- is a bond;

15 A is

5

$$R_1$$
 R_2
 R_3
 R_4
 R_5 ; and

R₂, R₃ and R₄ are each hydrogen.

112. A compound according to claim 111 that is 2-[(4-phenyl-3,6-dihydropyridin-1(2H)-

20 yl)methyl]-1H-benzimidazole.